

1. (Currently Amended) A method for affecting thermoacoustic oscillations in a combustion system ~~(6) comprising~~ having at least one burner ~~(7)~~ and at least one combustor ~~(8)~~, the method comprising:
 - [[-]] acoustically exciting a gas flow forming in the region of the burner ~~(7)~~ being excited acoustically;
 - [[-]] modulated-modulating injection of fuel ~~being carried out;~~ and
 - [[-]] coordinating the acoustic excitation of the gas flow and the modulated injection of the fuel ~~being coordinated in order~~ to affect the same interference frequency of the thermoacoustic oscillations.
2. (Currently Amended) The method as claimed in claim 1, ~~characterized in that~~ comprising:
 - measuring a signal correlating with the thermoacoustic oscillations in the combustion system; and
 - wherein the instantaneous acoustic excitation of the gas flow and the instantaneous modulated injection of the fuel are phase-coupled with ~~the same said~~ signal measured in the combustion system and correlating with the thermoacoustic oscillations.
3. (Currently Amended) The method as claimed in claim 2, ~~characterized~~ comprising:
 - [[- in that]] subjecting the measured signal ~~is subjected to~~ a first phase shift ~~and is used to generate;~~
 - generating a first driver signal; which drives at least one acoustic source ~~(3)~~ to produce the instantaneous acoustic excitation of the gas flow;
 - [[- in that]] subjecting the measured signal ~~is subjected to~~ a second phase shift ~~and is used to generate;~~
 - generating a second driver signal; which drives at least one control valve ~~(4)~~ to produce the instantaneous modulated injection of the fuel.

4. (Currently Amended) The method as claimed in claim 3, ~~characterized in that~~ wherein the first phase shift has a value different from that of the second phase shift.

5. (Currently Amended) The method as claimed in ~~one of claims 1 to 4~~ Claim 1, ~~characterized in that wherein~~ the acoustic excitation of the gas flow is ~~carried out performed~~ upstream of the modulated injection of the fuel.

6. (Currently Amended) The method as claimed in ~~one of claims 1 to 5~~ Claim 1, ~~characterized in that wherein~~ the modulated injection of the fuel is ~~carried out performed~~ in a shear layer forming in the gas flow.

7. (Currently Amended) A device for affecting thermoacoustic oscillations in a combustion system ~~(6)~~ comprising:

_____ at least one burner ~~(7)~~ and at least one combustor ~~(8)~~;

[[~~-~~]] ~~in the region of the burner (7) there being arranged~~ at least one acoustic source ~~(3)~~ configured and arranged for producing acoustic excitation of a gas flow forming in the region of the burner ~~(7)~~;

[[~~-~~]] the burner ~~(7)~~ having at least one fuel supply device ~~(5)~~ with at least one control valve ~~(4)~~ for producing modulated injection of the fuel; and

[[~~-~~]] a control system ~~(2)~~ ~~being provided~~ which drives the at least one acoustic source ~~(3)~~ and the at least one control valve ~~(4)~~ to affect the same interference frequency of the thermoacoustic oscillations.

8. (Currently Amended) The device as claimed in claim 7, ~~characterized wherein~~

[[~~-~~ in that]] the control system ~~(2)~~ has comprises an input side, an output side, a first control path ~~(10)~~ for the acoustic excitation of the gas flow, and a second control path ~~(11)~~ for the modulated injection of the fuel;

[[~~-~~ in that]] the same signal correlating with the thermoacoustic oscillations is supplied to both the first and second control paths ~~(10, 11)~~ on the input side and in parallel;

[[~~-~~ in that]] the two control paths ~~(10, 11)~~ in each ~~case~~ contain a time delay element ~~(12, 13)~~ for producing a phase shift;

[[~~-~~ in that,]] on the output side, the first control path ~~(10)~~ conducts a first driver signal to the acoustic source ~~(3)~~; and

[[~~-~~ in that,]] on the output side, the second control path ~~(11)~~ conducts a second driver signal to the control valve ~~(4)~~.

9. (Currently Amended) The device as claimed in claim 8, ~~characterized in that~~ wherein the first time delay element ~~(12)~~ produces a phase shift different from that of the second time delay element ~~(13)~~.

10. (Currently Amended) The device as claimed in ~~one of claims 7 to 9~~ Claim 7, ~~characterized in that~~ wherein the at least one acoustic source ~~(3)~~ is arranged upstream of ~~the a~~ point at which the modulated injection of the fuel is ~~carried out~~ performed.